



INVITATION TO BID NO: 10-R-2215113

STATE OF ALABAMA  
DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING

INVITATION TO BID

REQ. AGENCY : 012050  
ALDOT - 8TH DIVISION  
AGENCY REQ. NO. : 804-080086  
T-NUMBER :  
DATE ISSUED : 01/05/10  
VENDOR NO. :  
VENDOR PHONE NO. :  
SNAP REQ. NO. : 1431453  
BUYER NAME : RAY BRESSLER

FOR: MACRO-SURFACING  
EIGHTH DIVISION - MAINTENANCE

BUYER PHONE NO. : (334) 242-4670-  
PURCHASING PHONE NO: (334) 242-7250

BID MUST BE RECEIVED BEFORE:  
DATE: 01/21/10 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:  
DATE: 01/22/10 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE  
MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE \_\_\_\_\_ DAYS OR \_\_\_\_\_ WEEKS AFTER RECEIPT OF ORDER
2. TERMS: \_\_\_\_\_(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)
3. PRICE VALID FOR ACCEPTANCE WITHIN \_\_\_\_\_ DAYS.
4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: \_\_\_\_\_  
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)
5. E-MAIL ADDRESS: \_\_\_\_\_  
INTERNET WEBSITE: \_\_\_\_\_
6. GENERAL CONTRACTOR'S LICENSE NO: \_\_\_\_\_  
TYPE OF G.C. LICENSE: \_\_\_\_\_

\*\*\*\*\* IMPORTANT NOTE: \*\*\*\*\*

BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE  
ITEM 7 - COPY REQUIREMENT.

RETURN INVITATION TO BID:

US MAIL

COURIER

STATE OF ALABAMA  
DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING  
P O BOX 302620  
MONTGOMERY, AL 36130-2620

STATE OF ALABAMA  
DIVISION OF PURCHASING  
RSA UNION BUILDING  
100 N. UNION ST., SUITE 192  
MONTGOMERY, AL 36104

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED.  
I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN  
RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO  
REFRAIN FROM BIDDING.

SWORN TO AND

FEIN OR SSN

AUTHORIZED SIGNATURE (INK)

SUBSCRIBED BEFORE ME THIS

COMPANY NAME

TYPE/PRINT AUTHORIZED NAME

\_\_\_\_\_ DAY OF \_\_\_\_\_

MAIL ADDRESS

TITLE

NOTARY PUBLIC

CITY, STATE, ZIP

TOLL FREE NUMBER

TERM EXP: \_\_\_\_\_

PHONE INCLUDING AREA CODE

FAX NUMBER

STANDARD TERMS & CONDITIONS

VENDOR NAME :

VENDOR NUMBER: -

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OPEN DATE : 01/22/10 TIME: 10:00 AM

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AUTHORITY:

THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY BUSINESSES IN THE TECHNICAL COMPLETION OF REQUIRED FORMS MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS

REV: 09/18/09

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.
2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPARATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPARATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.
3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.
4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.
5. A "NO BID" MUST BE RETURNED TO REMAIN ON A CLASS/SUBCLASS. RETURN PAGE 1 OR NOTIFICATION PAGE MARKED "NO-BID". IDENTIFY IT ON THE ENVELOPE AS A "NO-BID". FAILING TO RESPOND TO 3 ITB'S WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. RESPONDING WITH 6 "NO-BIDS" WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. A "NO-BID" RECEIVED LATE IS CONSIDERED A NO RESPONSE.
6. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.
7. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE. FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED.
8. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURING REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX  
RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED  
BID RECEIVED LATE  
BID NOT SIGNED/NOT ORIGINAL SIGNATURE  
BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION  
NOTARIZED OWN SIGNATURE  
REQUIRED INFORMATION NOT SUBMITTED WITH BID  
FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116, CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

SPECIAL TERMS & CONDITIONS

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#### INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

#### ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

#### INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

#### PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACCEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

#### SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

#### INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

#### BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

#### FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

#### BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

SPECIAL TERMS & CONDITIONS

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AWARD:

EACH ITEM MUST BE PRICED SEPARATELY. HOWEVER, AN "ALL OR NONE" AWARD MAY BE MADE TO INSURE COMPATIBILITY AND/OR MAINTENANCE INTEGRITY WHERE APPLICABLE. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE BIDDER(S) MEETING ALL SPECIFICATIONS.

ASSIGNMENT OF CONTRACT:

TO ASSIGN, SUBLET OR TRANSFER ANY CONTRACT RESULTING FROM THIS SOLICITATION, THE VENDOR'S WRITTEN REQUEST MUST BE APPROVED BY THE STATE PURCHASING DIRECTOR.

F.O.B. DESTINATION:

F.O.B. DESTINATION IS THE LOCATION WHERE MERCHANDISE IS DELIVERED AND UNLOADED ON A RECEIVING DOCK, IF AVAILABLE, TO ANY STATE OR LOCAL GOVERNMENT AGENCY AND THE CHANGE OF TITLE TAKES PLACE. THE VENDOR IS LIABLE FOR FREIGHT CHARGES, RISK OF LOSS OR DAMAGE TO THE MERCHANDISE UP TO THE DESTINATION.

FREIGHT:

BID IS F.O.B. DESTINATION. ANY FREIGHT CHARGES MUST BE INCLUDED IN THE BID PRICES.

NON-APPROPRIATION OF FUNDS:

CONTINUATION OF ANY AGREEMENT BETWEEN THE STATE AND A BIDDER BEYOND A FISCAL YEAR IS CONTINGENT UPON CONTINUED LEGISLATIVE APPROPRIATION OF FUNDS FOR THE PURPOSE OF THIS BID AND ANY RESULTING AGREEMENT. NON-AVAILABILITY OF FUNDS AT ANY TIME SHALL CAUSE ANY AGREEMENT TO BECOME VOID AND UNENFORCEABLE AND NO LIQUIDATED DAMAGES SHALL ACCRUE TO THE STATE AS A RESULT. THE STATE WILL NOT INCUR LIABILITY BEYOND THE PAYMENT OF ACCRUED AGREEMENT PAYMENT.

PRORATION:

ANY PROVISION OF A CONTRACT RESULTING FROM THIS BID TO THE CONTRARY NOTWITHSTANDING, IN THE EVENT OF FAILURE OF THE STATE TO MAKE PAYMENT HEREUNDER AS A RESULT OF PARTIAL UNAVAILABILITY, AT THE TIME SUCH PAYMENT IS DUE, OF SUCH SUFFICIENT REVENUES OF THE STATE TO MAKE SUCH PAYMENT (PRORATION OF APPROPRIATED FUNDS FOR THE STATE HAVING BEEN DECLARED BY THE GOVERNOR PURSUANT TO SECTION 41-4-90 OF THE CODE OF ALABAMA 1975), THE CONTRACTOR SHALL HAVE THE OPTION, IN ADDITION TO THE OTHER REMEDIES OF THE CONTRACT, OF RENEGOTIATING THE CONTRACT (EXTENDING OR CHANGING PAYMENT TERMS OR AMOUNTS) OR TERMINATING THE CONTRACT.

QUALITY OF MATERIALS AND LABOR:

MATERIALS USED THAT ARE NOT OTHERWISE SPECIFIED SHALL BE THE KIND AND QUALITY CONSISTENT WITH THE TRADE PRACTICE FOR SUCH WORK AND SHALL COMPLY WITH ALL LOCAL CODES. ALL LABOR SHALL BE WELL EXPERIENCED IN THIS TYPE WORK AND IT SHALL BE COMPLETED IN A PROFESSIONAL MANNER.

REQUESTED INFORMATION:

ANY ADDITIONAL INFORMATION REQUESTED FROM A VENDOR MUST BE FURNISHED WITHIN TEN (10) DAYS FROM RECEIPT OF REQUEST.

## PRICE SHEET

VENDOR NAME :

VENDOR NUMBER: -

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## INVITATION TO BID

OPEN DATE : 01/22/10 TIME: 10:00 AM

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LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
UNLESS SPECIFIED OTHERWISE BELOW: SHIP TO: 012054 / 012M01 ALDOT - 8TH DIV DIST 3 DISTRICT ENGINEER CAMDEN AL HWY 10 WEST CAMDEN AL 36726					
00001	COMMODITY CODE: 968-62-067066 MACRO-SURFACING, APPLICATION OF POLYMER-MODIFIED ASPHALT EMULSION FOLLOWED BY PLACEMENT OF A SINGLE LAYER OF AGGREGATE AS PER SECTION 404, ALABAMA STANDARD SPECIFICATIONS.	76102	SY		
SITE LOCATION: SR-47 IN MONROE COUNTY MP 32.258 TO MP 37.663					
NOTE: MOBILIZATION TO BE A SUBSIDIARY OBLIGATION OF THE MACRO-SURFACING.					
00002	COMMODITY CODE: 968-56-089719 701A007, SOLID WHITE, CLASS 1, TYPE A, TRAFFIC STRIPE (5" WIDE)	11	MI		
00003	COMMODITY CODE: 968-56-089719 701A011, BROKEN YELLOW, CLASS 1, TYPE A, TRAFFIC STRIPE (5" WIDE)	2	MI		
00004	COMMODITY CODE: 968-56-089719 701A016, SOLID YELLOW, CLASS 1, TYPE A, TRAFFIC STRIPE (5" WIDE)	10	MI		
00005	COMMODITY CODE: 968-56-089719 701C002, BROKEN TEMPORARY TRAFFIC STRIPE (PAINT)	2	MI		
00006	COMMODITY CODE: 968-56-089719 701C003, SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	2	MI		
00007	COMMODITY CODE: 968-56-089719 705A032, PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	120	EA		
00008	COMMODITY CODE: 968-56-089719 705A037, PAVEMENT MARKERS, CLASS A-H, TYPE 2-D *****	620	EA		

RETURN ORIGINAL BID AND ONE COMPLETE  
EXACT COPY OF ORIGINAL BID TO PURCHASING

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PAGE TOTAL

BID TOTAL

# SPECIFICATIONS

## MACRO-SURFACING

SR-47 in Monroe County  
Milepost 32.258 to Milepost 37.663  
District Three – Eighth Division

Requisition No. 804-080086

SNAP No. 1431453

### 1.0 CONTRACTOR REQUIREMENTS – GENERAL

- 1.1 Pursuant to section 34-8-1(a) of the Code of Alabama, each contractor must submit with their bid, proof of licensing through the Alabama State Board of Licensing for General Contractors, with approved maximum bid limits sufficient to cover the bid related to this specification. Failure to comply will be cause for rejection of the bid. A copy of the vendor's current year's license will expedite the evaluation process.

\*\*\* APPLIES TO BIDS IN EXCESS OF \$50,000.00 ONLY! \*\*\*

- 1.2 Each contractor should submit with their bid, proof of liability insurance in the minimum amount of \$500,000 per occurrence, \$1,000,000 aggregate. Each contractor should further provide proof of workman's compensation insurance sufficient to satisfy all legal requirements of the State of Alabama. Failure to provide this documentation with the bid package will delay the bid evaluation process.
- 1.3 The successful bidder will be required to submit a performance bond, in the amount of the bid price prior to award of the purchase order.
- 1.4 All documentation MUST be submitted prior to award of the purchase order. All insurance certificates and bond instrument shall indicate State of Alabama, Department of Finance, and Division of Purchasing as certificate bond holder.
- 1.5 In accordance with Section 41-16-59 of the Code of Alabama, the successful bidder in this solicitation is restrained from assigning or sub-contracting any portion of the work under this contract.
- 1.6 Due to the nature of this project, award will be made on an "All or None" basis to the recommended vendor, who during the course of our bid evaluation is found to be the lowest responsible bidder. Each vendor will indicate a "per item" unit price in the appropriate blank in the text of the requisition. Award will be made by adding together all unit item costs for a total bid.

### 2.0 WORK SCOPE

- 2.1 All work shall be done in compliance with applicable sections of the Alabama Department of Transportation Standard Specifications for Highway Construction, 2008 Edition, Alabama Department of Transportation Standard Drawings, and the MUTCD. The materials used shall be chosen from the Materials, Sources, and Devices with Special Acceptance Requirements Manual. The traffic control scheme shall be submitted to the District Manager for his review prior to starting work. The successful bidder will contact the District Manager fourteen (14) days prior to initiating work to coordinate any work to be performed by State Forces.
- 2.2 The quantity stated in this solicitation is an estimate only for comparative purpose and in no way obligates the department to any specific quantity of purchases or patching. Actual maintenance requirements may be less than or greater than the estimated quantity as shown for each item. All quantities and dimensions are estimated and should be field verified by the contractor.
- 2.3 The contractor will be responsible for all traffic control measures. Attention is drawn to the fact that this work will be performed under traffic conditions requiring special care to expedite the work and prevent undue hazardous conditions. The contractor will be responsible for all traffic control devices (MUTCD) and Chapter VI of the most current edition of the Standards and Guides for Traffic Controls for Street and Highway Construction, Maintenance, Utility, and Incidental Management Operations.



## **Specifications**

Requisition No. 804-080086

Macro-surfacing SR-47 – Monroe County

District Three – Eighth Division

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- 2.4 The contractor will notify the District Three Manager 14 days prior to beginning work to allow time for clipping shoulders and removing existing pavement markers.
- 2.5 The macro-surfacing will be allowed a 14-day curing period before the placement of permanent striping and pavement markers.
- 2.6 Effective period will be from date of award for one year with option to renew a second and third year, if funds are available. New locations to be furnished by the Division Maintenance Engineer each year.

### **3.0 PERFORMANCE REQUIREMENTS**

- 3.1 Bid price shall include all materials, hardware, supplies, tools, equipment, labor, transportation and other necessary incidentals required for the completion of the work in an approved and satisfactory manner.
- 3.2 If required, on-site storage of job materials and/or equipment is to be coordinated with the District Manager prior to the beginning of work. The security of any material and/or equipment left on-site will be the responsibility of the contractor.
- 3.3 The performance of any work under these specifications will not be deemed complete until the contractor has satisfactorily removed all debris and cleaned up the work site. At no time during the performance of work will materials, debris, or trash be allowed to accumulate in such a manner as to endanger the safe performance of the work or the safety of the traveling public.
- 3.4 Locations of macro-resurfacing treatments will be specified at the direction of the Division Maintenance Engineer. Contractor shall begin work within 14 days of notification by the Division Maintenance Engineer and work shall be completed in a timely manner per move-in. The contractor shall provide the Division Maintenance Engineer a daily placement report by County. Delivery tickets for aggregates and a BMT-146 for asphalt shall be furnished to the Department.

### **4.0 PAYMENT**

- 4.1 Unit of payment will be "per square yard" to two (2) decimal places for the work listed on this solicitation. Payment will be per move-in for the project. Invoice must itemize materials and services rendered. Invoice to be submitted and processed after final acceptance of the work per move-in.
- 4.2 Contractor will be paid for the total area of macro-surfacing as requested by the Division Maintenance Engineer.
- 4.3 Payment in accordance with unit prices as bid will be payment in full for all labor, fuel, equipment, materials, traffic control, incidentals and other items of work. **Mobilization will be a subsidiary obligation of Section 404 (Macro-surfacing).**
- 4.4 Commodity Code: 968-62-067066 (Macro-surfacing)
  - ♦ Macro-surfacing, application of polymer-modified asphalt emulsion followed by placement of a single layer of aggregate as per Section 404, Pavement Surfacing (Macro-surfacing), Special Provision dated October 22, 2009.Commodity Code: 968-56-089719 (Traffic Stripe & Pavement Markers)
  - ♦ Traffic Stripe and Pavement Markers as per 2008 Edition of Alabama Department of Transportation Standard Specifications for Highway Construction.
- 4.5 Estimated Quantity: 76,102 square yards

# ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: October 22, 2009

Special Provision No. N/A

SUBJECT: Pavement Surfacing (Macro-Surfacing), ALDOT 8<sup>rd</sup> Division.

Alabama Standard Specifications, 2002 Edition, shall be amended as follows (this includes the addition of a new SECTION 404):

## SECTION 404 PAVEMENT SURFACING (MACRO-SURFACING)

### 404.01 Description.

This Section covers the placement of pavement surfacing that is composed of an application of polymer-modified asphalt emulsion which is followed immediately by the placement of a single layer of aggregate.

### 404.02 Materials.

#### (a) EMULSION.

The polymer modified asphalt emulsion (PMAE) shall be co-milled at the manufacturer's facility using polymer modified binder or polymer injected into the binder line before it enters the emulsion mill. Only Styrene Butadiene Rubber (SBR), Styrene Butadiene Styrene (SBS), or Styrene Butadiene (SB) polymer modifiers will be allowed. A sample of the PMAE, along with an infrared trace as noted in AASHTO T 302 showing the styrene and butadiene peaks and percentage of polymer, shall be submitted annually, or when asphalt source changes, to the Materials and Tests Engineer for laboratory evaluation prior to use.

The polymer modified asphalt emulsion shall be smooth and homogeneous. The emulsion shall meet the requirements shown in the following table:

meet the requirements shown in the following table.

POLYMER MODIFIED ASPHALT EMULSION (PMAE)			
TEST OF EMULSION			
Parameter	Test Method	Value	
Viscosity @ 122 °F, SF <sup>1</sup>	AASHTO T 59	25 Min.	600 Max.
Sieve Test, %	AASHTO T 59	-	0.5 Max.
Residue By Distillation @ 400 °F	AASHTO T 59	65 Min.	-
Oil Distillate, by Volume of Emulsion, %	AASHTO T 59	-	2.0 Max.
Particle Charge	AASHTO T 59	Positive <sup>2</sup>	
TEST OF RESIDUE FROM EMULSION			
Parameter	Test Method	Value	
Elastic Recovery @ 50 °F	AASHTO T-301	60.0 Min.	-
Penetration <sup>3</sup> @ 77 °F	AASHTO T 49	60 Min.	120 Max.
EMULSION FIELD PERFORMANCE TEST			
Parameter	Test Method	Value	
Sweep Test	ASTM D 7000	15 Max. Loss	
1. Viscosity samples shall be tested at the production plant prior to shipping to the job site.			
2. If the Particle Charge Test is inconclusive, a pH test (AASHTO T 200) shall be used with a maximum of 6.7 allowable.			
3. Residue penetration is climate specific. The emulsion supplier shall provide the emulsion sample.			



## (b) AGGREGATE.

Coarse aggregate shall meet the requirements given in Section 801 and shall be crushed aggregate produced from granite, limestone, steel slag, blast furnace slag, sandstone, or quartzite obtained through normal quarrying operations. The use of carbonate stone such as limestone, dolomite, or aggregate tending to polish under traffic shall be restricted to roadways with < 500 vehicles per day, based on average daily traffic (ADT) count in both directions. In addition, Section 801 for coarse aggregate shall be modified as follows:

The aggregate gradation, when sampled at the jobsite stockpile in accordance with the requirements given in AASHTO T2, shall be:

AGGREGATE SIZE, COMPOSITION BY WEIGHT (AASHTO T-27 & T11)				
Parameter	Job Site Stockpile		Job Site Stockpile	
Sieve Size	% Passing*, for ADT < 5000		% Passing*, for ADT ≥ 5000	
1/2 Inch	98.0 Min.	100 Max	98.0 Min.	100 Max
3/8 Inch	88.0 Min.	100 Max.	88.0 Min	100 Max.
# 4		29.0 Max.		16.0 Max
# 200		1.5 Max.		1.5 Max.
* % passing values must be within the bands listed for stockpile approval				

AGGREGATE PROPERTIES			
Parameter	Test Method	Minimum	Maximum
Absorption	AASHTO T-84/85		2%
LA Abrasion	AASHTO T 96		35*
Micro-Deval	AASHTO TP 58		18*
Flat and Elongated (3:1 Ratio) or	ASTM D 4791		20%
Flakiness			17%
* If the value for Micro-Deval or LA Abrasion exceeds the maximum limit, a sum < 55 can be used in place of the minimums in the table. (LA+MD<55)			

**404.03 Construction Requirements.**

## (a) PLACEMENT RATES.

The required application rates for the emulsion (gallons per square yard) and aggregate (pounds per square yard) will be shown on the plans.

The application rate for the emulsion will generally be from 0.35 to 0.55 gallons per square yard. The tolerance on the placement rate will be +/- 10% of the required number of gallons per square yard.

The application rate for the aggregate will generally be from 15 to 25 pounds per square yard. The tolerance on the placement rate will be +/- 10% of the required number of pounds per square yard.

## (b) WEATHER.

The pavement surfacing shall only be applied when the ambient temperature is above 60 °F and shall not be applied when the temperature of the pavement surface on which the treatment is to be applied is below 60 °F. The temperature shall be taken in the shade.

The application of the pavement surfacing shall be stopped a minimum of 2 hours prior to expected rain and 24 hours prior to expected freezing temperatures.

## (c) SURFACE PREPARATION.

The area to be covered shall be cleaned of dirt, dust and other deleterious materials prior to the application of the surfacing.

## (d) TEST SECTION.

The Contractor shall demonstrate the capability of meeting the placement requirements. The materials used in the test section shall be those that are proposed for production use. The Engineer will identify the location and length of the test section. The test section shall be one lane, 12 feet in width



and up 1000 feet long. If the application to the test section is unsuccessful, the Contractor shall make the necessary corrections and apply a new test section without additional compensation.

The placement rate and adhesion of the emulsion and aggregate will be evaluated.

**(e) MATERIAL APPLICATION.**

There shall be a minimum of 3 rollers available for construction. More rollers may be required depending on the planned application width, speed, and rolling pattern. The entire surface shall be rolled a minimum of one time prior to the sweeping operation.

Prior to starting the application, sufficient materials shall be available for continuous application. Water shall not be evident on the aggregate or in the supply vehicles.

Feed vehicles shall transfer aggregate to the application vehicle without spillage to prevent the presence of loose aggregate on the road surface prior to emulsion application.

Paper or other suitable material shall be used to prevent overlapping of transverse joints. Longitudinal joints shall match lane lines unless approved otherwise by the Engineer.

The aggregate surface shall be visibly moist for proper application. If necessary, the stockpile shall be sprayed with water to maintain aggregate moisture. If water is draining from the aggregate trucks, the moisture is excessive.

**(f) EXCESS AGGREGATE REMOVAL.**

The pavement surfacing system shall exhibit sufficient adhesion to the pavement surface to allow sweeping without damage to the surface treatment within two hours after application. Surplus aggregate shall be removed from the finished surface by sweeping after all rolling is completed. Particular attention shall be given to all construction joints to fully remove excess material from these locations. There shall be a minimum of 4 rotary brooms available to sweep all areas of the surface a minimum of three times and keep up with the application vehicle so that the application process is continuous.

The application area shall not be released to normal traffic until excess aggregate has been removed from the road surface to the satisfaction of the Engineer.

**(g) EQUIPMENT.**

**1. APPLICATION VEHICLE.**

The application vehicle shall be capable of applying a uniform application of emulsion and cover aggregate without the vehicle driving on the newly applied surface. The application vehicle shall have integrated dual spray bar and aggregate spread hopper whose width can be varied independently during operation. The application vehicle and support trucks shall be capable of continuously applying the emulsion and aggregate. The application vehicle shall be capable of applying the aggregate so that no more than a length of 48 inches of emulsion application is on the road surface without cover aggregate. All systems for the application of materials shall be computer controlled.

**2. SPREAD HOPPER.**

The spread hopper shall consist of a variable width hopper system including driven augers and spread rolls. The hopper width shall be synchronized with the spray bar width. This width shall be continuously variable in 4 inch increments at application widths greater than 10 feet and variable in 12 inch increments at application widths less than 10 feet. There shall be continuous conveyor feed to the hopper system. A suitable full-width screen with 2 inch mesh to reject all oversized materials and foreign objects shall cover the spread hopper. The aggregate spreader shall be calibrated in accordance with ASTM D5624-95. The allowable deviation in the amount of aggregate spread in both transverse and longitudinal directions shall be  $\pm 1.0$  pound per square yard.

**3. CONTROL SYSTEMS.**

The Application Rate Computer shall be able to vary either aggregate or emulsion application rates continuously during vehicle operation. The aggregate computer shall monitor the speed of the application vehicle, and vary the gate opening in order to maintain the set application rate, in pounds per square yard at forward operating speeds. The emulsion and aggregate computers shall vary the output of emulsion pumps and or aggregate application to maintain the required application rate at forward operating speeds regardless of changes in application width. The emulsion



computer shall also indicate gallons sprayed, length of roadway surfaced, and area of roadway surfaced. The equipment shall be calibrated at the start of each project.

#### 4. EMULSION APPLICATION SYSTEM.

An insulated emulsion tank shall be provided on the application vehicle. The tank shall have a functional capacity gage. The operator's station shall have an indicator of the tank emulsion level. The vehicle shall be capable of transferring additional emulsion into the tank during continuous operation. A removable strainer shall be supplied to remove the potential for unwanted material from entering the emulsion tank.

The spray bars shall allow for positive circulation from one end of the bar to the other. Nozzles shall be spaced on no greater than 4 inch centers on the spray bars. There shall be an individual valve for each spray nozzle, so the spray width can be adjusted synchronously with the aggregate hopper width during operation. The spray bar operating width shall be synchronized with the aggregate hopper width. The width shall be continuously variable in not greater than 4 inch increments at application widths greater than 10 feet and variable in 12 inch increments at application widths less than 10 feet.

The application equipment shall be capable of measuring and recording the total emulsion applied with an accuracy of +/- 5%. A daily log shall be maintained to record the total area covered and the total volume of emulsion applied.

#### 5. SUPPORT VEHICLES.

There shall be support vehicles to allow for continuous feeding and operation of the application vehicle. The support vehicles shall be capable of simultaneously feeding both aggregate and emulsion to the application vehicle. The support vehicles shall be capable of supplying the application vehicle as the application vehicle moves forward during construction.

#### 6. ROLLERS.

The rollers shall be self-propelled and equipped with smooth pneumatic tires. Under working conditions, the rollers shall have a minimum effective rolling width of approximately 5.7 ft. The minimum total weight for the rollers shall be 12.5 tons. However, larger rollers may be allowed upon request.

The rollers shall be equipped with tires that will afford ground contact pressures of 80 psi or more. The operating load and tire pressure shall be within the range of the manufacturer's charts showing the contact areas and contact pressures for the full range of tire inflation pressures and for the full range of loadings for the particular tires furnished. Under working conditions, the rollers shall be within plus or minus 5 psi of each other.

The power unit shall have adequate tractive effort to properly move the operating rollers at variable uniform speeds up to a maximum of 5 miles per hour. The rollers shall be equipped with automatic tire cleaning scrapers to remove any aggregate that may adhere to the roller tires during operation. The cleaning system shall be operational during construction.

#### 7. AGGREGATE REMOVAL EQUIPMENT.

Rotary brooms of various types are acceptable for excess aggregate removal. All rotary brooms shall have the following capabilities and shall be in good repair in order to apply controlled uniform sweeping pressure across the width of the broom. Equipment tires shall have road tread; no tractor tires are permitted. The equipment shall have variable down pressure, variable angle of approach, and independently controllable variable rotational speed. The broom bristles shall be straight, a minimum of 5 inches in length, and uniform length across the width of the broom. The vertical motion of the broom shall keep the axis of the broom parallel to the road surface at all times; the entire width of the broom shall contact the pavement essentially simultaneously as the broom contacts the road surface.

#### 8. WATER TRUCK.

The water truck, if required, shall be suitably equipped to allow spraying of the aggregate stockpile to maintain proper aggregate moisture.

#### 9. EMULSION STORAGE AND HANDLING EQUIPMENT.

All equipment used in storing or handling Macro-Surfacing emulsion shall be kept clean and in good operating condition at all times and shall be operated in such a manner that there will be no contamination of the emulsion. The emulsion shall be transferred directly to the support vehicles or application equipment from the transport tankers; a distributor may be used for short term materials storage. Material not used within 48 hours (including the materials stored in distributors) of initial delivery should be returned to the producing facility. The contractor shall provide and maintain a temperature-measuring device to indicate the temperature of the emulsion in the transport tankers. The temperature of the emulsion shall be maintained at a minimum of 140 °F in the transport tankers. Emulsion shall not be stored in the application vehicle overnight.

##### (h) SAMPLING.

Samples of the aggregate shall be taken at the stockpile site prior to delivery to the job. A sample shall be taken within the first 100 tons and every 500 tons thereafter. In addition, "spot" samples may be taken anytime during production at the discretion of the Engineer. If the average of the test results from any three consecutive samples (from the stockpile) varies from the stockpile gradation requirements given in 404.02(b), placement shall stop. The contractor shall identify the cause of the discrepancy and document in detail what corrective action was taken. Documentation of the corrective action shall be furnished to the Engineer before placement can continue.

##### (i) ACCEPTANCE.

The Contractor shall be responsible for the maintenance of the surface treatment until the work is accepted by the Engineer. Damage or loss of aggregate in the surface exceeding 2% of the surface area in any 500 foot long section shall be repaired by use of additional asphalt and aggregate. All bleeding (excess asphalt) surfaces shall be covered with approved cover material in such a manner that the asphaltic material will not adhere to or be picked up by the wheels of vehicles.

If in the Engineer's judgment, defective areas warrant removal, the Contractor shall remove and replace those areas at the Contractor's expense with materials meeting specification requirements.

#### 404.04 Method of Measurement.

The pavement surfacing will be measured in units of square yards.

#### 404.05 Basis of Payment.

##### (a) UNIT PRICE COVERAGE.

The unit price of the pavement surfacing shall be full compensation for all materials, equipment, tools, and labor required for furnishing and placing the pavement surfacing.

##### (b) PAYMENT WILL BE MADE UNDER ITEM NO.:

404-G Pavement Surfacing ( \* ) - per square yard

\* Macro-Surfacing